

What is Claimed is:

- 5 1. A coating for insulation material comprising a metal layer and a plastic layer, wherein the plastic layer contains plastic that crystallises when heated.
2. The coating of claim 1 wherein the metal layer is an aluminum layer.
3. A method for manufacturing a coating for insulation material comprising joining a metal layer and a plastic layer to each other by extrusion, wherein the plastic layer contains extrudable plastic that crystallizes when heated.
- 10 4. A method for manufacturing insulation material comprising:
 - joining a coating material to the insulation material, wherein the coating material includes a metal layer and a plastic layer, wherein the plastic layer includes plastic that crystallizes when heated; and
 - heating the plastic layer in an amount effective for crystallizing the plastic.
- 15 5. The method of claim 4 wherein the metal layer is an aluminum layer.
6. The method of claim 4 wherein the plastic layer contains a polyamide selected from the group consisting of polyamide-66, polyamide-6 and mixtures thereof.
7. The method of claim 4 wherein the plastic layer is heated to about 100 to about 160°C.
- 20 8. The method of claim 4 wherein the insulation material includes an expanded plastic or fiber wool.
9. The method of claim 8 wherein the expanded plastic is expanded polyurethane or expanded polystyrene.
10. The method of claim 4 wherein the insulation layer is joined to the plastic layer during formation of the plastic layer.
- 25 11. The method of claim 10 wherein during the formation of a plastic layer, an amount of heat is generated that is effective for crystallizing plastic in the plastic layer.
12. An insulation material comprising a coating joined to an insulation layer, the coating included a metal layer and a plastic layer, the plastic layer includes a polyamide that
- 30 can be crystallized with heating.

13. The insulation material of claim 12 wherein the metal layer is an aluminum layer.
14. The insulation material of claim 12 wherein the plastic layer that includes a polyamide layer is placed against the insulation layer.
- 5 15. The insulation material of claim 12 wherein there is a layer that is effective for enhancing adhesion between the coating and the insulation layer.